Christie Vista URS

Auditoriums
Boardrooms
Broadcast studios
Conference rooms
Control rooms
Houses of worship
Media centers
Post-production
Rental and staging
Training rooms

Format-independent routing switcher for a multi-format world

Most routing switchers require all sources and destinations to be the same format. If the input source doesn't match the output display, peripheral hardware is required to process and convert it before the router can do its job.

But, not with the Christie Vista URS – all the processing is in the switcher which then routes the signal to any destination – quickly and easily. The URS has an amazing amount of power in a very small package, so you need fewer wires, boxes and rack space.

The URS handles any input-output combination of computer and video formats with ease, including analog/digital, interlaced/progressive, and high/low resolution. With built-in integrated source monitoring and sophisticated keying, the URS accepts sources from analog composite to digital 4K and seamlessly routes them to any destination display. You won't find any matrix switcher on the market today that can do what the URS does.

The URS performs all the processing to match the source to the output, including scaling, aspect ratio, color-space, and frame rate conversion. Normally, these functions require additional equipment and complex, restrictive control systems, however with the URS the entire process is simplified, saving you time, money and resources.

This system also includes built-in source monitoring, so you can simultaneously check all (real-time) inputs – quickly and easily.

CHRISTIE

What is a Universal Routing Switcher (URS)?

Think of it as the anything-in, anything-out matrix switcher that processes as it routes. A Universal Routing Switcher (URS) accepts any source format, converts it, and sends it to any output display. It eliminates most or all of your front- and back-end boxes, reducing your requirements to one piece of equipment and one point of control. There are two models in the URS series:

- Vista URS-0808 – 8 inputs, 8 outputs
- Vista URS-1608 – 16 inputs, 8 outputs

Key features

- Universal input/output capabilities – mix and match multiple formats with one piece of equipment
- Input capability – either 8 or 16 inputs (depending on model) that can be a mix of analog BNC and DVI signals
- Output capability – 8 outputs that natively support any display from component analog 480i to digital 4K
- Built-in conversion for analog/digital, interlaced/progressive, resolution, aspect ratio and frame rate – seamlessly route any source to any user-configurable output
- Define properties for each output independent of each signal
- Integrated source monitoring – real-time and full frame rate view of all sources connected to the URS (either 16 or 8 inputs) on a single output, tiled into either a 4x4 array (URS-1608) or a 4x2 array (URS-0808)
- Overlay (key) capability – up to four sources can be layered onto each output for a multitude of needs, including background/foreground transitions, PIP windows, bugs, lower-third titling, tickers, messaging, sign windows and more
- Single point of control for all processing and signal distribution functions from front panel, PC via Ethernet, or external control system
- Small form factor – (LxWxH): 21.9 x 17.3 x 7.0" (556 x 439 x 178mm). Additionally, only one piece of equipment is required so the overall space used on a rack is reduced
- Each output individually supports rotation; enabling the creation of vertically-oriented displays

Additional features

- Easy-to-use web-based interface enables monitoring and control of the URS from any computer on the network
- Built-in image capture/Still Store functionality
- Auto set-up feature
- Intuitive graphical user interface (GUI)
- Simple cohesive control of all functions
- Redundant hot swappable power supplies
- Optional URS-IBSS High Speed Infiniband Still Store server
- Optional stereoscopic support
- The URS-0808 is expandable – can be modified to support 16 inputs

Software interface

The Microsoft® Windows XP/Vista based control software for the URS provides full setup, configuration, and real-time control of the routing switcher with an easy-to-use interface.

▲ The ribbon interface offers quick access to URS functionality, and contextual tabs show only relevant information based on current application selections.

▲ The software user interface allows quick access to configuration and control.

▲ URS front panel can be viewed and manipulated through the software interface.

▲ Output builder allows manual positioning and sizing of inputs.

▲ Output viewer shows real-time status of all outputs.

		Vista URS-0808	Vista URS-1608
Input	number	• 8 inputs • 4 supporting composite, S-video, component analog, HDSDI, SDI, and 3G SDI (SMPTE 424M) • 4 supporting progressive DVI and progressive RGBHV	• 16 inputs • 8 supporting composite, S-video, component analog, HDSDI, SDI, and 3G SDI (SMPTE 424M) • 8 supporting progressive DVI and progressive RGBHV
	signals	• Analog RGB composite, component • DVI, single-link and dual-link (8 inputs are dual-link capable) • SDI, HD-SDI and 3G-SDI (SMPTE 424M)	
	pixel clock	• Analog up to 165MHz • DVI up to 265MHz	
	resolutions	• Up to 2560 x 1600 (any resolution greater than 2048 x 1200 uses 2 input channels)	
	scan rates	• Up to 120Hz dependant on pixel clock rate maximum	
Output	number	• 8 @ (< 2048 x 1200) or 4 @ (2560 x 1600) or combination	
	signals	• Analog RGB, component • DVI, single-link and dual-link (4 outputs are dual-link capable) • SDI, HD-SDI and 3G-SDI (SMPTE 424M)	
	pixel clock	• Analog up to 165MHz • DVI up to 265MHz	
	resolutions	• Up to 2560 x 1600 (any resolution greater than 2048 x 1200 uses 2 output channels)	
	scan rates	• Up to 120Hz dependant on pixel clock rate maximum	
Control and networking		• RS-232 in/out • Ethernet (10/100)	
Enhanced feature sets		• Independent aspect ratio and frame rate set-up • Overlays • Transitions • Aspect ratio conversions • Integrated source monitoring • Built-in image capture • Output rotation (portrait) • Optional stereoscopic support	
Accessories	standard	• User manual (CD-ROM and quick manual) • 2 AC power cords • URS control software • Rack hardware	
Power requirements	operating voltage	• 100 VAC to 240 VAC @ 50/60Hz	
	operating current	• 9.0A @ 100 VAC	
	power	• 900W	
	dissipation	• <750 BTU/hr	
Dimensions	size	• 4RU	
	dimensions	• (LxWxH): 21.9 x 17.3 x 7.0" (556 x 439 x 178mm)	
	shipping dimensions	• (LxWxH): 32.3 x 25.5 x 15" (820 x 648 x 381mm)	
	volume	• 2652in^3	
	weight	• 59lb (27kg)	
	shipping weight	• 70.5lb (32kg)	
Operating environment		• Temperature: 5-35° C (40-95° F) • Humidity: 20-80% non-condensing	
Regulatory approvals		• This product conforms to the following regulations related to product safety, environmental requirements and electromagnetic compatibility (EMC): • UL/CSA/IEC 60950 (3rd Edition) • FCC Class A, CE, CCC • RoHS, WEEE	
Limited warranty		• 1 year parts and labor • Contact an authorized Christie representative for full details of our limited warranty	

Minimum PC Requirements

Microsoft Windows Vista Based Computers

Microsoft's Windows Vista platform provides a rating called the 'Windows Experience Index', which measures the capability of your computer's hardware and software configuration and expresses this measurement as a number called a base score. A higher base score generally means that your computer will perform better and faster than a computer with a lower base score, and makes it simple to purchase a PC with confidence that it will work properly with the Vista Advanced software interface.

Requirements

- 'Windows Experience Index' of 4.0 or greater

Microsoft Windows XP Based Computers

Computers running the Windows XP user interface do not support the 'Windows Experience Index' provided in Windows Vista, and therefore the hardware profile listed below can be used as a base hardware configuration.

Requirements

- Pentium 4, 2.5Ghz or equivalent
- 512MB of RAM
- 128MB, DirectX 9.0 compatible video card (NVidia preferred)
- Windows XP Professional, Service Pack 2 or later
- Microsoft .Net framework, Version 2.0 or later
- Microsoft DirectX 9.0c or later

Note: MAC or PC emulators such as VMWare and Microsoft Virtual PC should not be used to run Vista Advanced, and Vista cannot provide support for users using an emulator of any kind.

Front panel

▲ The URS front panel interface goes beyond the traditional cross point capabilities found on other routing switchers. The URS front panel enables users to quickly perform virtually any configuration or control task available on the routing switcher. LCD labeling and multi-color switches create an enhanced user experience that makes the front panel easy to use and easy to understand.

URS-1608 rear panel

▲ The URS-1608 has 16 inputs and 8 outputs, and redundant hot swappable power supplies.

URS-0808 rear panel

▲ The URS-0808 has 8 inputs and 8 outputs, and can be modified to support 16 inputs.

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